Atty. Docket No.: 052546-0169

CLAIMS

What is claimed is:

l	1. A probe tip alignment method for a precision liquid handler having a
2	probe drive system and a locator bed holding sample wells, said method comprising performing
3	the following steps:
4	inserting a probe tip with the probe drive system into a locator well at a known
5	position on the locator bed; and
5	determining the position of the probe tip in the locator well;
7	said determining step including moving the probe tip with the probe drive system
8	into contact with a plurality of points on the side wall of the locator well; and
9	sensing the contact of the probe tip against the side wall of the locator well.
1	2. The probe tip alignment method claimed in claim 1, said sensing step
2	including detecting electrical contact between the probe tip and the side wall of the locator well.
1	3. The probe tip alignment method claimed in claim 1, said moving step
2	including:
3	driving the probe tip back and forth along a first axis into contact with first
4	opposed points on a circular portion of the side wall of the locator well;
5	placing the probe at a point midway between the first opposed points;
5	driving the probe tip back and forth along a second axis orthogonal to the first
7	axis into contact with second opposed points on the side wall of the locator well; and
8	placing the probe at a point midway between the second opposed points.
1	4. The probe tip alignment method claimed in claim 3, said moving step
2	further including:
3	driving the probe tip back and forth along a third axis parallel to the first axis into
4	contact with third opposed points on the side wall of the locator well; and
5	placing the probe at a point midway between the third opposed points.